

DECLARATION FOR UTILITY OR

PTO/SB/02A (10-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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BP0308-US

Attorney Docket Number

DECT	CN					
DESIGN PATENT APPLICATION (37 CFR 1.63)		First Named Invent	or Pappin e	t al.		
			COMPLETE IF KNOWN			
☐ Declaration ☒ Declaration		Application Number	10/751,38	10/751,388		
Submitted OR With Initial	Submitted after	er Filing Date	January	5, 2004		
Filing	(surcharge	Art Unit	1632			
	(37 CFR 1.16) required)	(e)) Examiner Name	Not Assig	gned		
As the below named inventor, I hereby declare that: My residence, mailing address, and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: Isotopically Enriched N-Substituted Piperazines And Methods For The Preparation Thereof						
(Title of the Invention) the specification of which is attached hereto						
OR Was filed on (MM/DD/YYYY) 01/05/2004 as United States Application Number or PCT International						
Application Number 10/751,388 and was amended on (MM/DD/YYYY) (if applicable).					pplicable).	
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority						
is claimed. Prior Foreign Application Country Foreign Filing Date Priority Certified Copy Attach						
				NO		
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Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

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(Application Serial No.)	(Filing Date)	
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isclosed in the prior United States of 12, I acknowledge the duty to disclo atentability as defined in Title 37, C	tates, listed below and, insofar as the subtraction of the mose to the United States Patent and Tra .F.R., Section 1.56 which became avail	application(s), or Section 365(c) of any PCT Internation bject matter of each of the claims of this application is a anner provided by the first paragraph of 35 U.S.C. Sect demark Office all information known to me to be materia able between the filing date of the prior application and
sclosed in the prior United States of 2, I acknowledge the duty to disclost atentability as defined in Title 37, C ational or PCT International filing de	tates, listed below and, insofar as the subtract or PCT International application in the mose to the United States Patent and Trau.F.R., Section 1.56 which became availate of this application:	bject matter of each of the claims of this application is anner provided by the first paragraph of 35 U.S.C. Sect demark Office all information known to me to be materiable between the filing date of the prior application and
sclosed in the prior United States of 12, I acknowledge the duty to disclost eatentability as defined in Title 37, C	tates, listed below and, insofar as the subtraction of the mose to the United States Patent and Tra .F.R., Section 1.56 which became avail	bject matter of each of the claims of this application is anner provided by the first paragraph of 35 U.S.C. Section and the first paragraph of 50 U.S.C. Se
sclosed in the prior United States of 12, I acknowledge the duty to disclost atentability as defined in Title 37, C ational or PCT International filing da	tates, listed below and, insofar as the subtract or PCT International application in the mose to the United States Patent and Trau.F.R., Section 1.56 which became availate of this application:	abject matter of each of the claims of this application is a canner provided by the first paragraph of 35 U.S.C. Sect demark Office all information known to me to be materiable between the filing date of the prior application and

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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erwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION - Utility or Design Patent Application

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Direct all correspondence to:						
Practioners at Customer Nu OR	mber	23544]	23544	
Correspondence address below:						
Firm or Individual Name						
Address						
City	City				Zip	
Country	Telep	hone			Fax	
be true; and further that these statements we	re made with	the knowledge	that will	ful false statements a	nade on information and belief are believed to not the like so made are punishable by fine or validity of the application or any patent issued	
NAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this unsigned inventor.						
Given Name Darryl J.C Family Name PAPPIN (first and middle [if any]) Or Surname						
Inventor's Signature Date 6 8 04						
Residence: City Boxborough State MA Country US Citizenship United Kin				Citizenship United Kingdom		
Mailing Address 391 Burroughs I	Road					
City Boxborough	State	MA	Zip	02139	Country United States	
NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor.						
Given Name Sasi Family Name PILLAI (first and middle [if any]) Or Surname						
Inventor's Signature Date 05/28/04						
Residence: City Littleton State MA				Country US	Citizenship India	
Mailing Address 1 Nicole Lane						
City Littleton	State	MA	Zip	01460	Country United States	
Additional inventors are being named on the supplemental Additional Inventor(s) sheet(s) PTO/SB02A attached hereto.						

PTO/SB/02A (10-01)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE of Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. a plus sign (+) inside this box \rightarrow $\boxed{+}$ ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2 of 2.

Name of Additional Joint Invent	or, if any:] A	petition has been	filed fo	r this unsigned inventor.
Given Name James M. Family Name COULL (first and middle [if any])						
Inventor's Signature Date 4/3/64						
Westford			State MA Country US		United States	
Mailing Address 7 Banbury Drive	е					
City	State	MA	Zip	01886		Country United States
Name of Additional Joint Invento	or, if any:] A	petition has been	filed fo	r this unsigned inventor.
Given Name (first and middle [if any]) Family Name Or Surname						
Inventor's Signature Date						
Residence: City State			Country Citizenship			
Mailing Address						
City	State		Zip)		Country
Name of Additional Joint Inventor, if any: A petition has been filed for this unsigned inventor.						
Given Name (first and middle [if any]) Family Name Or Surname						
Inventor's Signature Date						
Residence: City State			1	Country	Citize	nship
Mailing Address						
City	State		Zip)		Country

PTO/SB/81 (10-00) Approved for use through 10/31/2002. OMB 0651-0035 Please type aplus sign(*) inside this box — + Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 10/751,388 Filing Date January 5, 2004 POWER OF ATTORNEY OR **First Named Inventor** Darryl J.C. Pappin AUTHORIZATION OF AGENT **Group Art Unit** To be assigned **Examiner Name** To be assigned **Attorney Docket Number BP0308-US** I hereby appoint: 23544 **Practitioners at Customer Number** 23544 OR Practitioner(s) named below: Registration Number Name as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. Please change the correspondence address for the above-identified application to: The above-mentioned Customer Number. OR Firm or Individual Name Address City State Zip Country Telephone Fax I am the: Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (PTO/SB/96) SIGNATURE of Applicant or Assignee of Record Signature

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple

Date

DNE 18, 2004

Name

* Total of

Brian D. Gildea, Patent Attorney

forms are submitted.

forms if more than one signature is required, see below.

PTO/SB/81 (10-00)
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+ Approved for use through 10/31/2002. OMB 0651-0035
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(b)				
Applicative Patent Owner: Pappin et al.				
CENTEDY (18 19)				
Application No.: 10/751,388 Filed/Issue Date: January 5, 2004				
Entitled: Isotopically Enriched N-Substituted Piperazines And Methods For The Preparation Thereof				
Applera Corporation , a Corporation ,				
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)				
states that it is:				
1. the assignee of the entire right, title and interest; or				
2. an assignee of less than the entire right, title and interest.				
The extent (by, percentage) of its ownership interest is %				
In the patent application/patent identified above by virtue of either:				
A. [X] An executed assignment from the inventor(s) of the patent application/patent identified above is attached				
hereto. OR				
B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:				
1. From:				
The document recorded in the United States Patent and Trademark Office at				
Reel, Frame, or for which a copy thereof is attached.				
2. From: To: The document recorded in the United States Patent and Trademark Office at				
Reel, Frame, or for which a copy thereof is attached.				
3. From: To:				
The document recorded in the United States Patent and Trademark Office at				
Reel, Frame, or for which a copy thereof is attached.				
[] Additional documents in the chain of title are listed on a supplemental sheet.				
[X] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]				
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.				
Jon E 18, 2004 Brian D. Gildea, Reg. No. 39,995				
Date Brian D. Gildea, Reg. No. 39,995 Typed or printed name				
12-3 k.l.o.				
Signature				
Patent Attorney Title				
i mo				

LIMITED AUTHORIZATION TO ACT ON BEHALF OF ASSIGNEE REGARDING CERTAIN PATENT AND TRADEMARK MATTERS

EFFECTIVE THROUGH: December 31, 2006

I, Paul D. Grossman, as Assistant Secretary of Applera Corporation ("Applera"), hereby authorize the following patent attorneys:

Scott R. Bortner, Reg. No. 34,298 John W. Burns, Reg. No. 43,520 Jeffery D. Frazier, Reg. No. 34,601 Brian D. Gildea, Reg. No. 39,995 Andrew T. Karnakis, Reg. No. 27,909 Phil N. Makrogiannis, Reg. No. 47,766 Vincent M. Powers, Reg. No. 36,246

(1) to act on behalf of Applera, with regard to any matters before the United States Patent and Trademark Office, any foreign patent or trademark offices, and any international patent or trademark entities, (2) to execute power of attorney documents on behalf of Applera, to appoint and/or establish any attorneys, agents, and/or law firms to act on behalf of Applera, in any foreign or international patent or trademark applications filed with any foreign and/or international patent or trademark offices, and (3) to execute assignment and ownership documents on behalf of Applera, with regard to any matters before the United States Patent and Trademark Office, any foreign patent or trademark offices, and any international patent or trademark offices.

Paul D. Groseman Assistant Secretary, Applera Corporation < /26 /04

Date

State of California) ss.
County of San Mateo)

On March 26, 2004 before me, Patti Q Sclam, personally appeared Paul D. Grossman, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

PATTI D. SELAN
Commission # 1393279
Notary Public - California
San Mateo County
My Comm. Expires Feb 9, 2007

Notary Public

ASSIGNMENT

For good and valuable consideration paid to us, receipt of which is hereby acknowledged, we each:

Darryl J.C. Pappin residing at 391 Burroughs Road, Boxborough, MA 01719, citizen of United Kingdom;

James M. Coull residing at 7 Banbury Drive, Westford, MA 01886, citizen of the United States; Sasi Pillai residing at 1 Nicole Lane, Littleton, MA 01460, citizen of In ia

do hereby sell, assign, and set over unto

Applera Corporation

a Delaware corporation having a place of business at 15 DeAngelo Drive, Bedford, Massachusetts (hereinafter "Assignee"), its successors, legal representatives and assigns, each of our entire right, title, and interest in and to any and all of our inventions and discoveries entitled:

Isotopically Enriched N-Substituted Piperazines And Methods For The Preparation Thereof

as described and/or claimed in our United States patent application, having an oath or declaration fully executed by us and, subsequently assigned Serial Number 10/751,388 and filing date of January 5, 2004 by the United States Patent and Trademark Office; in and to the right to file patent applications in the name of Assignee, its designee, in all of our names, or in any other name or names, on the aforesaid inventions and discoveries in any or all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified United States patent application under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models, and under any other international arrangement to which the United States now is or hereafter becomes a signatory; in and to any and all applications for Letters Patent, and any and all Letters Patent that issue on any of the aforesaid applications, and in and to any and all divisions, continuations, and continuations-in-part of any and all of said applications, and any and all reissues, renewals and extensions of any of said Letters Patent, such that the same right, title and interest to be held and enjoyed by Assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefore may be granted, shall be as full and complete as that that would have been held and enjoyed by us if this assignment and sale had not been made.

We further hereby covenant and agree, for the same consideration, whenever counsel of Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with said invention, or said application for Letters Patent, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable to sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

We hereby authorize Assignee to insert in this instrument the serial number and filing date of said application when officially notified thereof.

			Case No. BP0308-U	S
Name of inventor:	Darryl J.C. Pappin			
Inventor's signature _	- Japan	Date:	4/1/04	
				
State of Massachuset				
County of Middlesex) ss.			
	1, 2004 before me,			
basis of satisfactory e	evidence) to be the person	whose name is subse	cribed to the within instru	ımen
-	o me that he executed the trument the person, or the		• •	-
executed the histranic	A1t.			
WITNESS my hand a	and official seal.			
			0	
		Par	w & Jocei	
		1	Notary Public	

Name of inventor:	James M. Coull			
Inventor's signature _	Jn.m.		Date: 4/1/	P04
State of Massachuset	•			
County of Middlesex) ss.			
personally appeared of satisfactory evider acknowledged to me	James M. Coull , pace) to be the person we that he executed the sare person, or the entity	personally knov hose name is so ne in his author	vn to me (or proubscribed to the rized capacity, a	within instrument and that by his signature
WITNESS my hand a	and official seal.			
			Notary I	Public .

Case No. BP0308-US

	Case No. DI 0500-05
Name of inventor: Sasi K. Pillai	•
Inventor's signature	Date: 03, 31, 04
State of Massachusetts)) ss.	
County of Middlesex)	
On <u>March 31</u> , 2004 before me, <u>sasi K. Pillai</u> , personally appeared <u>Sasi K. Pillai</u> , personal satisfactory evidence) to be the person whose nacknowledged to me that he executed the same in on the instrument the person, or the entity upon instrument.	ally known to me (or proved to me on the basis of tame is subscribed to the within instrument and his authorized capacity, and that by his signature
WITNESS my hand and official seal.	
	Notary Public